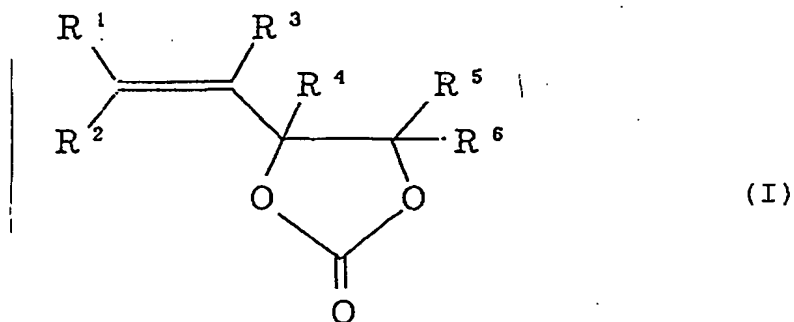


## Abstract

A non-aqueous electrolyte secondary battery comprising a negative electrode, a positive electrode and an electrolyte having a lithium salt dissolved in a non-aqueous solvent characterized in that said non-aqueous solvent contains a vinylene carbonate compound represented by the general formula (I) in an amount of from 0.01 to 20% by weight is subject to minimized decomposition of the electrolyte and can provide a high capacity as well as exhibits excellent storage properties and cycle life performance.



wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$  and  $R^6$  each independently represent a hydrogen atom or an alkyl group having 1 to 4 carbon atoms.

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